

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT INITIATION

Date: 1/2/80

Project Title: Teacher Training For Curriculum Enrichment Procedures to be used with Potential Minority Engineering Students in Atlanta-Area High Schools

Project No: E-15-622

Project Director: Ms. Carolyn C. Chestnutt

Sponsor: The Research Foundation of State University of New York; Long Island, N.Y. 11794

Agreement Period: From 6/13/79 Until 6/23/79

Type Agreement: Sub-contract Agreement Account No. 431-5075-C (under Sloan Foundation Contract No. 379-07ORF)

Amount: \$8,000

Reports Required: Final Report

Sponsor Contact Person (s):

Technical Matters

Dr. John G. Truxal
NCCCD Project Director
State University of New York
at Stony Brook
Long Island, N.Y. 11794

Contractual Matters
(thru OCA)

Ms. Elizabeth Pagan
Purchasing Department
Finance & Management
State University of New York
at Stony Brook
Long Island, N.Y. 11794
(516) 246-5144

Defense Priority Rating: None

Assigned to: Office of the Dean of Engineering (School/Laboratory)

COPIES TO:

Project Director
Division Chief (EES)
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Project Code (GTRI)
Other OCA Research Property Coordinator

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT TERMINATION

Date: January 11, 1980

Project Title: Teacher Training For Curriculum Enrichment Procedures to be used
with Potential Minority Engineering Students in Atlanta-Area
High Schools

Project No: E-15-622

Project Director: Ms. Carolyn C. Chestnutt

Sponsor: The Research Foundation of State University of New York; Long Island,
N.Y. 11794

Effective Termination Date: 6/23/79

Clearance of Accounting Charges: 6/23/79

Grant/Contract Closeout Actions Remaining:

- ☒ Final Invoice and ~~Other~~ ~~XXXXXXXX~~ GTRI to handle
- ☐ Final Fiscal Report
- ☐ Final Report of Inventions
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other _____

Assigned to: Office of the Dean of Engineering (School/Laboratory) ~~XXXXXXXX~~

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c/o Georgia Institute of Technology
Atlanta, Georgia 30332

E-15-622

"Teacher Training For Curriculum Enrichment Procedures
To Be Used With Potential Minority Engineering Students
In Atlanta-Area High Schools"

Final Report

Thirty-seven teachers representing 11 high schools from the Atlanta Public Schools attended the SECME Summer Institute held at the Georgia Institute of Technology, June 13 - 23, 1979. The teachers participated in all classes and activities.

The grant was expanded in the following manner:

Tuition	\$2,600
Registration	1,900
Materials & Supplies	1,500
Travel	1,000
Total	<hr/> \$8,000

Enclosed is a program for the Institute.

E-15-622/C

Program

Third Annual Summer Institute
Southeastern Consortium for Minorities in Engineering
Georgia Institute of Technology
Georgia State University
Atlanta, Georgia

June 13-23, 1979

Third Annual Summer Institute

Sponsored by

The Southeastern Consortium for Minorities in Engineering

F.W. Schutz, Jr., Codirector
Associate Dean of Engineering for Guidance
Georgia Institute of Technology

Hiram Johnston, Codirector
Chairman, Department of Curriculum and Instruction
Georgia State University

WEDNESDAY, JUNE 13, 1979

1:00 p.m. - 4 p.m.	Registration	Atlanta Townehouse
5:30 p.m. - 6:30 p.m.	Reception for SECME participants & staff Home of Dr. and Mrs. Joseph M. Pettit President, Georgia Institute of Technology	
7:00 p.m. - 9:30 p.m.	Banquet	Atlanta Townehouse
	Master of Ceremonies F.W. Schutz, Jr. SECME Board Member	
	Welcome Vernon D. Crawford Vice President for Academic Affairs Georgia Institute of Technology	
	Introduction of Consortium Institution Representatives and SECME staff Z.W. Dybczak Dean of Engineering, Tuskegee Institute Chairman, SECME Board of Directors	
	Introduction of Guests Hiram Johnston Georgia State University	
	Introduction of Speaker W.E. Lear Dean of Engineering University of Alabama	
	Keynote Address David Ford, Manager Industrial Control Development Allen-Bradley Company	

All daytime sessions are in the Space Science & Technology Building on the Georgia Tech campus unless otherwise indicated.

All evening sessions are at the Atlanta Townehouse unless otherwise indicated.

THURSDAY, JUNE 14, 1979

Theme: The Why & What of SECME

8:30 a.m. - 10:15 a.m. Moderator: Z.W. Dybczak

"Minorities in Engineering - A Historical Overview"

W.E. Lear, Dean of Engineering
University of Alabama

"The Successful Pre-College Program"

Melvin Thompson, Executive Director
Committee on Minorities in Engineering
National Research Council

"SECME - Who Needs It?"

Carolyn C. Chesnutt, Executive Director
SECME

10:15 a.m. - 10:45 a.m. Break

10:45 a.m. - 12 noon "Encounters of an E-Kind"

Junior Engineering Technical Society (JETS)
Douglass High School, Atlanta

11:00 a.m. - 12 noon

"Meeting Human Need - The Essence of Engineering"

George Sowers, Professor of Civil Engineering
Georgia Institute of Technology

12:15 p.m. - 1:15 p.m. Lunch Student Center Cafeteria

1:30 p.m. - 2:45 p.m. Moderator: Hiram Johnston

"Curriculum Can Turn on Students"

E.J. Piel, Executive Director
National Coordinating Center for Curriculum Development

3:00 p.m. - 4:30 p.m. Curriculum Work Groups

4:30 p.m. Break

7:00 p.m. - 9:00 p.m. Film Festival

Walter Robinson, Engineer
Southern Bell

FRIDAY, JUNE 15, 1979

Theme: Solving Problems

8:30 a.m. - 9:30 a.m. Moderator: F.W. Schutz, Jr.

"MARTA - An Overview of the Largest
Engineering Project in the Southeast"

Manuel Padron, Director of Planning & Marketing
Metropolitan Atlanta Rapid Transit Authority

9:30 a.m. - 10:30 a.m. Moderator: Anne Rowe
Engineering Faculty Coordinator
Florida Institute of Technology

Panel Discussion:

"Becoming an Engineer - from a Minority Viewpoint"

Leonard Thompson
Buckeye Cellulose Corporation, Memphis

Susan Kane
Environmental Protection Division
State of Georgia, Atlanta

Ramona Jones
Southern Bell, Atlanta

B.W. Harrington, Jr.
Harrington, George & Dunn, Atlanta

Miguel Osoreo
Tennessee Valley Authority, Knoxville

Janet Harrison
DuPont, Savannah River Plant, Aiken, SC

Luisa Dennstedt
Union Carbide, Texas City, Texas

10:30 a.m. - 11:00 a.m. Break

11:00 a.m. - 12 noon "Just What Do Engineers Do?"
Small group discussions with engineers

12:15 p.m. - 1:00 p.m. Lunch Student Center Cafeteria

1:15 p.m. - 2:30 p.m. Moderator: Ed Lucy, Science Education
Georgia State University

"Problem Solving is What Life is All About"
Project Development

2:30 p.m. - 4:30 p.m. Special Interests (Meeting Places to be announced)

- I. Calculators in the Classroom
- II. Clean Air Car,
Donald Covault, Professor CE
- III. Solar Energy Slides & Tour,
J.R. Williams, Georgia Tech
- IV. Energy Simulation,
Henry Hagedoorn, University of Central Florida
- V. Toy Car Competition,
John Freeman, North Carolina State University

4:30 p.m. Break

SATURDAY, JUNE 16, 1979

10:00 a.m. - 12 noon MARTA Tour - Group I Meet in Townehouse Lobby
2:00 p.m. - 4:00 p.m. MARTA Tour - Group II Meet in Townehouse Lobby

SUNDAY, JUNE 17, 1979

Tour of Atlanta

Six Flags

6:00 p.m. - 9:00 p.m. Display of minicomputers Saxony A
Atlanta Townehouse

MONDAY, JUNE 18, 1979

Theme: Teacher/Counselor Role in Career Decisions

8:30 a.m. - 10:30 a.m. Curriculum Groups
Engineering Faculty Meeting Conference Room
Aerospace Engineering

10:30 a.m. - 11:00 a.m. Break

11:00 a.m. - 12 noon Moderator: Roscoe McNealy
Engineering Faculty Coordinator
University of Florida

"How Teachers Can Help - A Personal Story"
Robert Holmes, Engineer
Alabama Power Company

12:15 p.m. - 1:00 p.m. Lunch Student Center Cafeteria

1:15 p.m. - 2:45 p.m. Moderator: Carolyn Myers, Instructor
Mechanical Engineering, Georgia Tech

Panel Discussion
Georgia Tech Engineering Students
Jorge Ciappi, ME
Evangeline Brown, EE
Phillip Gee, ISyE
Isaac Champagne, EE
Margie A. Smith, NE

3:00 p.m. - 4:30 p.m. Curriculum Enrichment
Math visits Science and Language Arts
Science visits Language Arts and Math
Language Arts visits Math and Science

4:30 p.m. Break

7:00 p.m. - 9:00 p.m. Film Festival

TUESDAY, JUNE 19, 1979

Theme: Academic Preparation - The Key to Success

8:30 a.m. - 10:00 a.m.	Engineering Labs I	(Groups & Locations to be announced)
10:00 a.m. - 10:30 a.m.	Break	
10:30 a.m. - 12 noon	Curriculum Groups Engineering Faculty Meeting	Conference Room - AE
12:15 p.m. - 1:00 p.m.	Lunch	Student Center Cafeteria
1:15 p.m. - 2:30 p.m.	Project Development	
2:45 p.m. - 4:30 p.m.	Curriculum Groups Engineering Faculty Meeting	Conference Room - AE
4:30 p.m.	Break	
7:00 p.m. - 8:00 p.m.	Moderator: Jake Halford Engineering Faculty Coordinator The Citadel	
	Enrichment through JETS Howard Wakeland, Associate Dean of Engineering Illinois Institute of Technology	
8:00 p.m. - 9:00 p.m.	Informal Discussion on Club Activities	

WEDNESDAY, JUNE 20, 1979

Theme: Developing Community Support

8:30 a.m. - 10:00 a.m.	Engineering Labs II
10:00 a.m. - 10:30 a.m.	Break
10:30 a.m. - 12 noon	Moderator: John Freeman Engineering Faculty Coordinator North Carolina State University
	"Can Industry & Schools Speak The Same Language?" Brooks Whitehurst, Governor's Staff State of North Carolina
	"Working with Community Groups" Ida Baker, Principal, Cape Coral High School
	"Involving Parents" Herbert Lavendar, Principal, Aliceville High School
12:15 p.m. - 1:00 p.m.	Lunch Student Center Cafeteria
1:00 p.m. - 3:00 p.m.	Curriculum Groups
3:00 p.m. - 4:30 p.m.	Individual Project Development
4:30 p.m.	Break
7:00 p.m. - 9 p.m.	Film Festival

THURSDAY, JUNE 21

Theme: Developing Engineering Guidance

8:30 a.m. - 10:00 a.m.	Engineering Labs III	
10:00 a.m. - 10:30 a.m.	Break Registration - Project Directors	
10:30 a.m. - 12 noon	Panel Discussion of SECME Projects by Staff Members Teacher In-Service Programs Identifying Minority Students Enriching Curriculum	
12:15 - 1:00 p.m.	Lunch	Student Center Cafeteria
1:15 p.m. - 4:30 p.m.	Project Directors' Meeting	
1:15 p.m. - 2:00 p.m.	Moderator: F.W. Schutz, Jr. "The Importance of High School Guidance" F.W. Schutz, Jr., Associate Dean of Engineering Georgia Institute of Technology	
2:00 p.m. - 2:45 p.m.	"The Routes to Engineering" Z. W. Dybczak, Dean of Engineering Tuskegee Institute Charles Meredith, Provost Atlanta University Center	
3:00 p.m. - 3:45 p.m.	"Making It Financially in Engineering College" Nydia Gouraige, Director University Relations National Fund for Minority Engineering Students Bob James, Assistant Director Cooperative Education, Georgia Institute of Technology	
3:45 p.m. - 4:30 p.m.	"The Job Outlook" Michael A. Donahue, Director of Placement Georgia Institute of Technology John Lucky Proctor & Gamble	
4:30	Break	
6:00 p.m. - 7:00 p.m.	Reception	Atlanta Townehouse Saxony A
7:15 p.m.	Dinner Theatre Wits End Players	Student Center Ballroom

FRIDAY, JUNE 22, 1979

Theme: Getting the Most Out of An Engineering Faculty Coordinator

7:30 a.m. - 8:30 a.m.	Engineering Faculty Coordinators' Breakfast	
8:30 a.m. - 9:30 a.m.	"An Engineer Goes to High School" Erwin A. Reinhard Engineering Faculty Coordinator The University of Alabama	
9:45 a.m. - 12 noon	Planning Sessions with Engineering Faculty Coordinators Executive Committee Meeting	Conference Room, AE
12:15 p.m. - 1:00 p.m.	Lunch Participants Project Directors Executive Committee	Student Center Cafeteria Student Center, Rm 301 Student Center, Rm 359
1:15 p.m. - 2:45 p.m.	Project Development	
3:00 p.m. - 4:30 p.m.	Curriculum Groups	Student Center
4:30 p.m.	Break	
7:00 p.m. - 9:00 p.m.	Student Rap Session	

SATURDAY, JUNE 23, 1979

9:00 a.m. - 10:15 a.m.	Wrap-Up Complete Post-Test and Evaluation Submit Plans for Utilization of Modules	Student Center Theatre
10:30 a.m. - 12 noon	Brunch Fred E. Brown Minority Engineering Program University of Tennessee, Knoxville	Student Center Ballroom
	Awarding of Certificates	
12 noon	Adjourn	

Faculty and Staff

Edward Lucy, Associate Professor, Science Education, Georgia State University
Jack Downs, Professor, Mathematics Education, Georgia State University
Robert Probst, Associate Professor, English Education, Georgia State University
Willette Williams, Science Teacher, Denmark-Olar High School, Denmark, SC
Samuel Spearman, Science Teacher, Hillsborough Senior High School, Tampa, FL
Naomi Seifert, Science Teacher, Spartanburg High School, Spartanburg, SC
Jeff Given, Science Teacher, Glades Central High School, Belle Glades, FL
Peggy Martin, Mathematics Teacher, Gibbs High School, St. Petersburg, FL
Alice Doanes, Mathematics Teacher, C.L. Harper High School, Atlanta, GA
Rosemary Austin, English Teacher, B.C. Rain High School, Mobile, AL
Linnie McMillan, English Teacher, Fulton High School, Knoxville, TN
Katherine M. Hertzka, Program Specialist, Georgia Institute of Technology
Audie Jordan, Education Specialist, SECME
Brenda P. Witten, Summer Institute Coordinator, SECME
Carolyn C. Chesnutt, Executive Director, SECME

Engineering Faculty Coordinators Attending

John Kennedy, Auburn University, Auburn
Naim Kheir, The University of Alabama, Huntsville
Erwin A. Reinhard, The University of Alabama, Tuscaloosa
Shaik Jeelani, Tuskegee Institute, Tuskegee
Anne Rowe, Florida Institute of Technology, Melbourn
A. Henry Hagedoorn, University of Central Florida, Orlando
Roscoe J. McNealy, University of Florida, Gainesville
Henry Frazee, University of South Florida, Tampa
Jude T. Sommerfeld, Georgia Institute of Technology, Atlanta
William B. Hall, Mississippi State University, Starkville
John F. Freeman, Jr., North Carolina State University, Raleigh
Jake H. Halford, The Citadel, Charleston
Joseph Biedenbach, University of South Carolina, Columbia
John H. Forrester, University of Tennessee, Knoxville
Fred Terry, Christian Brothers College, Memphis
Roger Nolte, Memphis State University, Memphis